

## IN THE CLAIMS:

The text of all pending claims are set forth below. Cancelled and withdrawn claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (previously amended), (cancelled), (withdrawn), (new), (previously added), (reinstated - formerly claim #), (previously reinstated), (re-presented - formerly dependent claim #) or, (previously re-presented).

Please AMEND claims 4-7, 11, 13, 14, 16, 18, 21 and 23 in accordance with the following:

1. (original): A glycolic acid copolymer comprising:

(a) 80 to less than 95 % by mole of glycolic acid monomer units,

(b) 5.0 to 20.0 % by mole of non-glycolic, hydroxycarboxylic acid monomer units,

and

(c) 0 to 0.10 % by mole of diglycolic acid monomer units,

said non-glycolic, hydroxycarboxylic acid monomer units (b) constituting a plurality of segments each independently consisting of at least one non-glycolic, hydroxycarboxylic acid monomer unit (b), wherein said segments have an average chain length of from 1.00 to 1.50 in terms of the average number of non-glycolic, hydroxycarboxylic acid monomer unit or units (b), the total of said components (a), (b) and (c) being 100 % by mole, said glycolic acid copolymer having a weight average molecular weight of 50,000 or more.

2. (original): The glycolic acid copolymer according to claim 1, wherein the weight average molecular weight of said glycolic acid copolymer is 80,000 or more.

3. (original): The glycolic acid copolymer according to claim 1 or 2, wherein the amount of diglycolic acid monomer units (c) is from more than 0 to 0.09 % by mole, based on the total molar amount of components (a), (b) and (c).

4. (currently amended): The glycolic acid copolymer according to ~~any one of~~ claims 1 to 3 or 2, wherein the weight average molecular weight of said glycolic acid copolymer is 100,000 or more.

5. (currently amended): The glycolic acid copolymer according to ~~any one of~~ claims 1 to 4 or 2, wherein the average chain length of said segments each independently consisting of at least one non-glycolic, hydroxycarboxylic acid monomer unit (b) is from 1.00 to 1.20.

6. (currently amended): The glycolic acid copolymer according to ~~any one of~~ claims 1 to 5 or 2, wherein said non-glycolic, hydroxycarboxylic acid monomer units (b) are non-glycolic, monohydroxymonocarboxylic acid monomer units.

7. (currently amended): The glycolic acid copolymer according to ~~any one of~~ claims 1 to 6 or 2, which further comprises a polyol monomer unit (d).

8. (original): The glycolic acid copolymer according to claim 7, wherein said polyol monomer unit (d) comprises at least one member selected from the group consisting of monomer units derived from a diol having 3 or more carbon atoms and monomer units derived from a compound having 4 or more carbon atoms and 3 or more hydroxyl groups in the molecule.

9. (original): The glycolic acid copolymer according to claim 8, wherein said polyol monomer unit (d) comprises a monomer unit derived from a polyol having 5 or more carbon atoms and 2 or 3 hydroxyl groups in the molecule.

10. (original): The glycolic acid copolymer according to claim 9, wherein said polyol monomer units (d) are neopentyl glycol monomer units.

11. (currently amended): The glycolic acid copolymer according to ~~any one of~~ claims 7 to 10, which further comprises a polycarboxylic acid monomer unit (e) other than diglycolic acid monomer units, wherein the total amount of the polyol monomer units (d), the polycarboxylic acid monomer units (e), and the diglycolic acid monomer units (c) is less than 2.0 % by mole, based on the total molar amount of components (a), (b), (c), (d) and (e).

12. (original): The glycolic acid copolymer according to claim 11, wherein the total amount of the polyol monomer units (d), the polycarboxylic acid monomer units (e), and the diglycolic acid monomer units (c) is from more than 0.02 to less than 2.0 % by mole, based on the total molar amount of components (a), (b), (c), (d) and (e), and the amount of the polyol

monomer units (d) is from 0.02 to less than 2.0 % by mole, based on the total molar amount of components (a), (b), (c), (d) and (e).

13. (currently amended): The glycolic acid copolymer according to ~~any one of~~ claims 1 ~~to 12~~ or 2, wherein said non-glycolic, hydroxycarboxylic acid monomer units (b) comprise at least one member selected from the group consisting of lactic acid monomer units and 6-hydroxyhexanoic acid monomer units.

14. (currently amended): The glycolic acid copolymer according to ~~any one of~~ claims 1 ~~to 13~~ or 2, which is obtained by polycondensing at least one starting material selected from the group consisting of glycolic acid and a derivative thereof with a reactant copolymerizable with said at least one starting material, wherein said reactant comprises at least one member selected from the group consisting of a non-glycolic, hydroxycarboxylic acid and a derivative thereof.

15. (original): A method for producing a glycolic acid copolymer, which comprises the steps of:

(A) providing a raw material mixture comprising at least one starting material selected from the group consisting of glycolic acid and a derivative thereof, and a reactant copolymerizable with said at least one starting material, wherein said reactant comprises at least one member selected from the group consisting of a non-glycolic, hydroxycarboxylic acid, a derivative thereof and optionally at least one compound selected from the group consisting of a polyol, a polycarboxylic acid and a derivative of the polycarboxylic acid, and subjecting said raw material mixture to a preliminary polycondensation reaction at a temperature in the range of from 20 to 160 °C, thereby obtaining a reaction mixture containing a glycolic acid copolymer prepolymer having a weight average molecular weight of from 700 to 5,000,

(B) elevating the temperature of the reaction mixture to 190 °C within a period of 100 minutes as measured from the start of the temperature elevation in step (B), and

(C) performing a heat treatment of said reaction mixture at a temperature in the range of from 190 to 300 °C to effect a final polycondensation reaction, wherein said final polycondensation reaction is performed so as to obtain a glycolic acid copolymer having a weight average molecular weight of 10,000 or more, wherein said final polycondensation reaction is performed under conditions wherein the increasing rate of weight average molecular weight of the glycolic acid copolymer being produced is maintained at 1,000 per hour or more

until the weight average molecular weight reaches at least 10,000.

16. (currently amended): The method according to claim 15, wherein said heat treatment for effecting the final polycondensation reaction is performed so as to obtain the glycolic acid copolymer of ~~any one of claims 1 to 14~~ or 2, which has a weight average molecular weight of 50,000 or more.

17. (original): The method according to claim 15, wherein said raw material mixture satisfies the following formulae (1) to (3):

$$0.8 \leq X^1 \leq 0.95 \quad (1),$$

$$0.05 \leq X^2 \quad (2), \text{ and}$$

$$X^1 + X^2 + X^3 + X^4 = 1 \quad (3)$$

wherein:

$X^1$  represents the calculated molar ratio of said at least one starting material selected from the group consisting of glycolic acid and a derivative thereof,

$X^2$  represents the calculated molar ratio of said at least one member selected from the group consisting of a non-glycolic, hydroxycarboxylic acid and a derivative thereof,

$X^3$  represents the calculated molar ratio of an optional polyol,

$X^4$  represents the calculated molar ratio of at least one optional raw material selected from the group consisting of a polycarboxylic acid and a derivative thereof,

said calculated molar ratio of each raw material being defined as the ratio of the molar amount of the unit structure obtained by hydrolysis of each raw material to the total molar amount of the unit structures of all raw materials, and

each of  $X^3$  and  $X^4$  is independently 0 or more.

18. (currently amended): The method according to claim 17, wherein said raw material mixture satisfies the following formulae (4) and (5):

$$\frac{X^4}{X^1 + X^2} \leq 0.001 \quad (4), \text{ and}$$

$$0 < \frac{X^3}{X^1 + X^2} \leq 0.01 \quad (5),$$

wherein  $X^1$  to  $X^4$  are as defined for formulae (1) to (3) above, provided that  $X^3$  is more than 0, and  $X^4$  is 0 or more.

19. (original): The method according to claim 17, wherein said raw material mixture satisfies the following formulae (6) and (7):

$$0.001 < \frac{X^4}{X^1 + X^2} \leq 0.088 \quad (6), \text{ and}$$

$$1 \leq \frac{X^3}{X^4} \leq 2 \quad (7),$$

wherein  $X^1$  to  $X^4$  are as defined for formulae (1) to (3) above, provided that each of  $X^3$  and  $X^4$  is more than 0.

20. (original): The method according to claim 17, wherein said raw material mixture satisfies the following formula (8):

$$0.0002 \leq \frac{X^3 + X^4}{X^1 + X^2 + X^3 + X^4} < 0.02 \quad (8),$$

wherein  $X^1$  to  $X^4$  are as defined for formulae (1) to (3) above, provided that  $X^3$  is more than 0, and  $X^4$  is 0 or more.

21. (currently amended): A method for producing a glycolic acid copolymer of ~~any one~~ of claims 1 to 14 or 2, which comprises the steps of:

crystallizing the glycolic acid copolymer obtained by the method of claim 15, thereby obtaining a crystallized glycolic acid copolymer, and

subjecting the obtained crystallized glycolic acid copolymer to a solid phase polymerization, thereby increasing the degree of polymerization of the crystallized glycolic acid copolymer.

22. (original): The method according to claim 21, wherein said crystallized glycolic acid

copolymer before the solid phase polymerization has a weight average molecular weight of 25,000 or more, as measured by gel permeation chromatography using, as an eluent, an 80 mM sodium trifluoroacetate solution in hexafluoroisopropanol and using a calibration curve obtained with respect to standard monodisperse polymethyl methacrylate samples.

23. (currently amended): A shaped article obtained from the glycolic acid copolymer of ~~any one of claims 1 to 14~~ or 2.